·		<i>IV1</i> V	
	Application No.	Applicant(s)	•
	10/501,378	JIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Benjamin Buss	2129	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS	ive
1. X This communication is responsive to papers filed 11/27/20	<u>007</u> .		
2. ☑ The allowed claim(s) is/are <u>11-18 and 20</u> .			
3. Acknowledgment is made of a claim for foreign priority una All b) Some* c) None None None None None	e been received. e been received in Application No. cuments have been received in this of this communication to file a reply MENT of this application. Initted. Note the attached EXAMINE es reason(s) why the oath or declar st be submitted. son's Patent Drawing Review (PTC) s Amendment / Comment or in the	s national stage application from the y complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. 2-948) attached Office action of rings in the front (not the back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL	must be submitted. Note the	
A 44 - a b a 44 - a b			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar Paper No./Mail D	ate	•
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amend	dment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's Staten	nent of Reasons for Allowance	
•	9.		
•	•		
	•	·	

Art Unit: 2129

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted for Applicant's claim for priority as a 371 of PCT/EP02/14002 filed on **12/10/2002**, which papers have been placed of record in the file.

Receipt is acknowledged of certified papers submitted Applicant's claim for priority based on 02001252.2 filed in Europe on 1/17/2002, which papers have been placed of record in the file.

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Europe on 2/15/2002. It is noted, however, that applicant has **not** filed a certified copy of the 02003557.2 application as required by 35 U.S.C. 119(b).

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Specification

Insert the following paragraph following page 1 line 1 (TITLE OF THE INVENTION):

This application is a 371 of PCT/EP02/14002 filed on 12/10/2002. This application also claims priority based on application 02001252.2 filed in with the European Patent Office on 1/17/2002 and application 02003557.2 filed with the European Patent Office on 2/15/2002.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Claims 11-18 and 20 are considered allowable since when reading the claims in light of the specification, as per MPEP §2111.01 or In re Sneed, 710 F.2d 1544, 1548, 218 USPQ 385, 388 (Fed. Cir. 1983), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims including using "a fitness function comprising a sum of weighted sub-functions, each weighted sub-function corresponding to an objective of the multiple objective optimization" including "changing weights of the weighted sub-functions for the next cycle within predetermined ranges, a first weight of the weighted sub-functions changing within a first predetermined range, a

Application/Control Number: 10/501,378

Art Unit: 2129

second weight of the weighted sub-functions changing within a second predetermined range different from the first predetermined range, the first predetermined range and the second predetermined range representing preferences given to objectives of the multiple objective optimization" (supported at e.g., page 14 line 19 – page 15 line 26), as specified in independent claims 11 and 20.

The person of ordinary skill in the art at the time the invention was made would have understood the claimed "computer readable storage medium" to be well known as a physical material upon which the claimed "instructions executable by a processor" are stored and able to be read by a computer and executed by a computer processor to carry out the claimed steps resulting in the processor outputting "one or more offspring individuals after the termination criterion is met as the optimized object parameters of the mechanical, aerodynamic or hydrodynamic body" as claimed. The well-established nature of such a medium in the art is evidenced by the "IEEE 100 The Authoritative Dictionary of IEEE Standards and Terms, Seventh Edition" which defines:

machine-readable medium: A data medium that is machine-readable.

machine-readable: Pertaining to data in a form that can be automatically input to a computer, for example, data encoded on a diskette; Pertaining to a medium that can record information and convey it to a machine or sensing device.

media: Material on which information can be stored or transported; Any readable or writable data storage area.

medium: The material, or configuration thereof, on which data are recorded; for example, paper tape, cards, magnetic tape; machine-readable medium; data medium.

data medium: A material in or on which data are or may be represented; data carrier; prerecorded data medium; medium.

data carrier: Material that serves as a data medium or to which a data medium is applied that facilitates the transport of data; for example, a punch card, a disk, or a plastic card with a magnetic surface that serves as the data medium.

The Examiner was persuaded by the arguments filed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2129

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Buss whose telephone number is 571-272-5831. The examiner can normally be reached on M-F 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Vincent can be reached on 571-272-3080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Benjamin Buss Examiner Art Unit 2129

/BB/

DAVID VINCENT SUPERVISORY PATENT EXAMINER